

# ABSTRACT

A radio transmission apparatus capable of enhancing the diversity effect. In this apparatus, phase rotation section (102) performs phase rotation processing of  
5  $40.6^{\circ}=26.6^{\circ}+14.0^{\circ}$ , interleavers (106,111) perform two-time interleaving processing before IQ combining processing performed in a combining section (107) and after IQ separation processing performed in an IQ separating section (108), and the original modulation  
10 symbol obtained in a mapping section (101) is thereby dispersed and mapped to/at signal points of M-ary modulation level higher two ranks or more (for example, from a QPSK symbol to 256QAM symbols).